

***Department of Transportation
Transportation Mobility and Safety Division***

Updating the NCTN Map

***Revision 2.1
January 11, 2012***



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Updating the NCTN Map

1 Prerequisites / Notes

Adobe Writer

NCDOT WSCM – Can be downloaded and installed from the following link.

<https://intranet.dot.state.nc.us/portal/LinkClick.aspx?link=https%3a%2f%2fstage.dot.state.nc.us%2fwscm%2fwscm20%2f&tabid=80&mid=825>

ESRI ArcMap

Map data file from Jeff Jaeger – NCTN_Map_Data_yymmdd.xlsx

Save file to \GIS\DataLayers\GIS_TrafficSafety\Truck_Network\

Make Sure the data file is name correctly e.g. NCTN_Map_Data.xlsx

Make Sure the data file Tabs are name correctly e.g. “Red” and “Black”

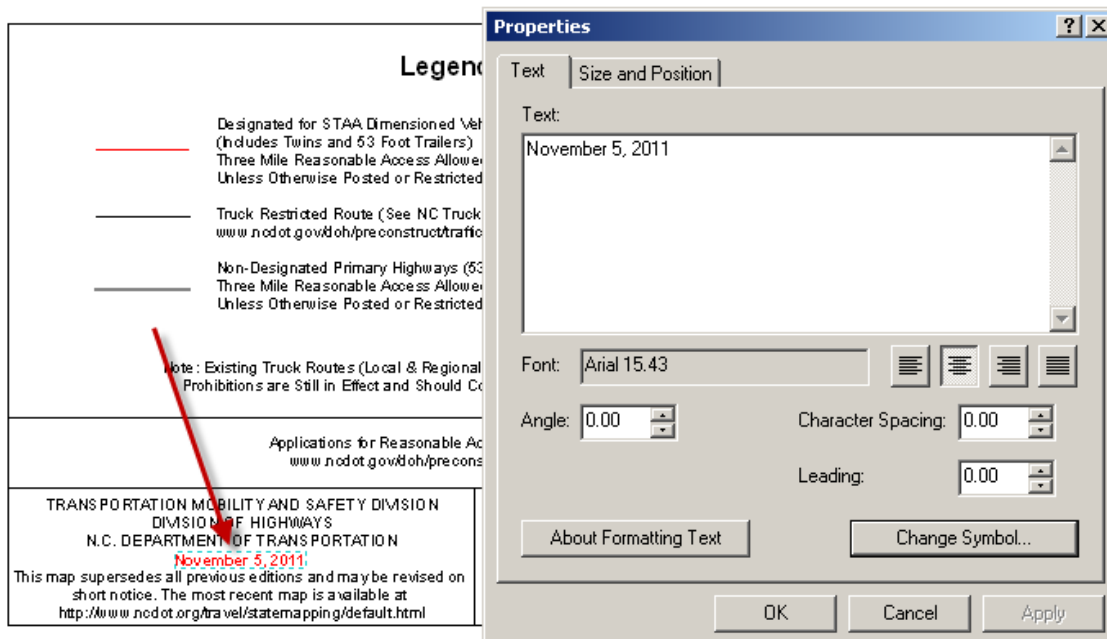
The Printed PDF maps need to be rotated after creation before uploading to Web

If manual import of Data file is needed see “Manual Import” and “Map View” below

2 Changing Date

Change the date of the map to reflect the date of the data file, by selecting the date text, right click and “Properties”. The color and size should be already set Color – Mars Red, Font - Arial, Size – 15.43

The “Properties” should look like this



3 Printing / Export

Make Sure the following layers are selected before printing

NCTN Map Data, Road Layers, NCSHP_troops (only for Troop maps) and County Boundary

Printing can be done with deskPDF. Paper size – ANSI E, Orientation – Landscape

Name the Troop PDF’s “NCTN_SHP_Troop_A.pdf” to reflect the Troop Letter

Updating the Web and Portal

01/12/12

Name the Main map “NCTN_With_Insets.pdf”

The newly created PDF’s will need to be rotated 90 degrees Clockwise

4 Creating a shape file

Create a copy of “Restricted.shp.xml” within \GIS\ShapeFile\ (Creating a new shape deletes Metadata file)

Open ArcCatalog

Check date

Right Click on Restricted and choose Data, Export Data

Output Shapefile or feature class = \GIS\ShapeFile\Restricted.shp

Right Click on Non-Restricted and choose Data, Export Data

Output Shapefile or feature class = \GIS\ShapeFile\Non-Restricted.shp

5 Metadata

Open ArcCatalog

Navigate to \GIS\ShapeFile\Restricted

Click Edit Metadata

Under Identification Choose Time Period and Change Calendar Date

Under Identification Choose Citation, Details then Change Publication Date

OK and Save

Repeat for Non-Restricted

Print Metadata to PDF and name it NCTN_Metadata.pdf (Only need to print one of the Metadata files)

6 Uploading to the Web

The following files after creation will need to be uploaded to the Traffic Website

NCTN_SHP_Troop_A.pdf

NCTN_SHP_Troop_E.pdf

NCTN_SHP_Troop_B.pdf

NCTN_SHP_Troop_F.pdf

NCTN_SHP_Troop_C.pdf

NCTN_SHP_Troop_G.pdf

NCTN_SHP_Troop_D.pdf

NCTN_SHP_Troop_H.pdf

NCTN_With_Insets.pdf

NCTN_Metadata.pdf

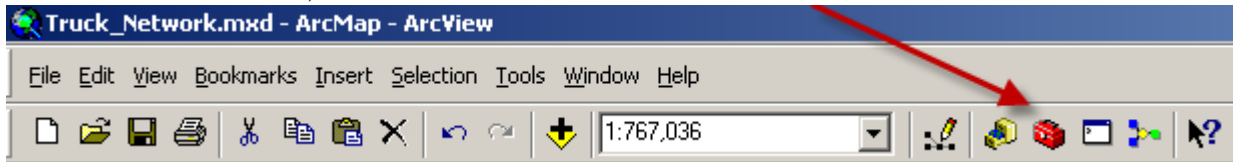
NCTN_Shape_File.zip

The location of these are /traffic/safety/truck/data/ You will need access to the WSCM utility to upload these files to the Web

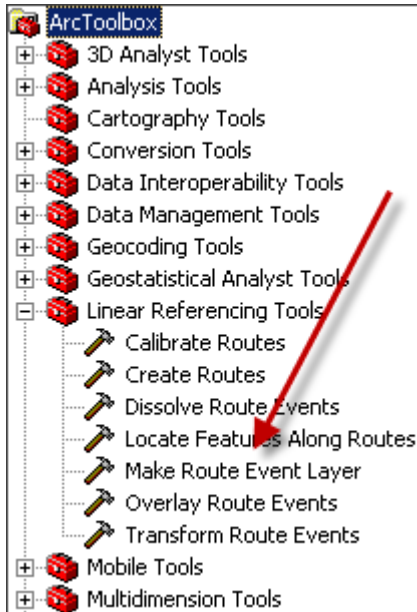
7 Manual Import

Within ArcView open ArcToolbox by clicking on the icon

This will be done twice, one for Restricted and one for Non-Restricted



Within the ArcToolbox menu select "Linear Referencing Tools" then "Make Route Event Layer"



Within the "Make Route Event Layer" dialog box complete the following

Input Route Features – LRS_Route

Route Identifier Field – Rte_Id (this will automatically be filled in)

Input Event Table – Choose data file from location above

Route Identifier Field – GIS_Rte_Cd (ignore error that will come up)

Event Type – LINE

From-Measure Field – HO_MP_BGN

To-Measure Field – HO_MP_END

Layer Name or Table View – Name of the data file NCTN_Map_Data (remove the \$ Events)

Offset Field (optional) – Leave Blank

Check the box "Generate a field for locating errors (optional)"

The "Make Route Event Layer" should look like this

Make Route Event Layer

Input Route Features
LRS_Route

Route Identifier Field
Rte_Id

Input Event Table
C:\Documents and Settings\angood\My Documents\GIS\DataLayers\GIS_TrafficSafety\Truck_Netwc

Event Table Properties

Route Identifier Field
GIS_Rte_Cd

Event Type
LINE

From-Measure Field
HO_MP_BGN

To-Measure Field
HO_MP_END

Layer Name or Table View
NCTN_Map_Data_111105

Offset Field (optional)

☒ Generate a field for locating errors (optional)

☐ Generate an angle field (optional)

Calculated Angle Type (optional)
NORMAL

☐ Write the complement of the angle to the angle field (optional)

☐ Events with a positive offset will be placed to the right of the routes (optional)

☐ Point events will be generated as multipoint features (optional)

OK Cancel Environments... Show Help >>

Click OK

8 Map View

Right click on the “NCTN_Map_Data” layer and select “Properties”

Choose “Symbology” then “Categories”

In the “Value Field” choose “Color” and click the “Add All Values” button

Uncheck the “<all other values>” Symbol

Change the “Black” symbol to the following options: Color – Black, Width – 2

Change the “Red” symbol to the following options: Color – Mars Red, Width – 3

The “Layer Properties” should look like this

